ENERGY STAR® Performance Ratings
Technical Methodology for Office, Bank/Financial Institution, and Courthouse

Revisions for Square Foot and PC Density Cap

The following edits should be made to the technical description for Office, to incorporate the new caps on Square Feet and Personal Computer Density.

Insert the following paragraphs directly before the section on "Model Testing".

Square Foot and Personal Computer Density Analysis:
The regression analysis shows that facilities with higher natural log of gross square foot have higher source EUI values on average. The relationship between source EUI and natural log of gross square foot was only observed up to a certain value for square foot. Therefore, the adjustment of natural log of square foot within the model is applied over that range, and capped at a maximum adjustment at the value of 200,000 square feet. That is, the square foot adjustment in the regression equation for a building larger than 200,000 square feet will be identical to the adjustment for a building that is 200,000 square feet.

The regression analysis shows a similar pattern of behavior for personal computer density (number of personal computers per 1000 square feet). Facilities with higher personal computer density have higher source EUI values on average, but the relationship was only observed up to a certain value of personal computer density. Therefore, the adjustment of personal computer density within the model is capped at a maximum adjustment at the value of 11.1 personal computers per 1000 square feet. Similar to the square foot cap, this means that the personal computer density adjustment for a building with more than 11.1 personal computers per 1000 square feet will be identical to the adjustment for a building that has 11.1 computers per 1000 square feet.

Insert the following footnotes at the bottom of Table 3:

- The LnSqFt adjustment is capped at a maximum value of 200,000 square feet.
- The PCDen adjustment is capped at a maximum value of 11.1 personal computers per 1000 square feet.